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SUBJECT: Forwards "Kewaunee Cycle 22 Alternate Repair Criteria 90 Day Rept" & "Exam of Kewaunee Cold Leg SG Tube R15C28," IAW GL 95-05, "Voltage-Based Repair Criteria for Repair of W SG Tubes Affected by Outside SCC."

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September 3, 1997

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Ladies/Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Kewaunee Cycle 22 Alternate Repair Criteria 90 Day Report

Enclosed are two reports: "Kewaunee Cycle 22 Alternate Repair Criteria 90 Day Report", and "Examination of Kewaunee Cold Leg Steam Generator Tube R15C28." These two reports are being submitted within 90 days of plant startup in accordance with NRC Generic Letter 95-05, "Voltage-Based Repair Criteria for the Repair of Westinghouse Steam Generator Tubes Affected by Outside Diameter Stress Corrosion Cracking." The methodology used to perform the postulated steam line break (SLB) leak rate calculation and tube burst probability are detailed in WCAP-14277, "SLB Leak Rate and Tube Burst Probability Analysis Methods for ODSCC at TSP Intersections."

The projected end-of-cycle (EOC) SLB tube leak rate and conditional burst probability are well within the regulatory requirements for application of the voltage-based repair criteria. Using the NRC probability of detection of 0.6, the cycle 22 EOC tube leakage under SLB conditions was projected to be 2.9 gpm (at room temperature), and the probability of burst was projected to be 8.6 E-05. These results meet the Kewaunee site allowable tube leak rate limit of 22.6 gpm (at room temperature) and the NRC guideline of 1.0 E-02 for tube burst probability.

Please note a change in the Kewaunee site allowable tube leak rate that was calculated for implementation of the alternate repair criteria. Originally, the site allowable was reported to be 34 gpm however, an error was detected in the calculation performed by Westinghouse in that the volumetric leak rates were not corrected for density. The corrected room temperature tube leak rate for the Kewaunee site is 22.6 gpm.

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Please contact a member of my staff if you have any question or require additional information.

Sincerely,

M. L. Marchi
Manager-Nuclear Business Group

SLB/jmf
Enc.
cc - US NRC Region III
US NRC Senior Resident Inspector

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